

EEEEEEEEEEEEEE	DDDDDDDDDDDD	TTTTTTTTTTTT
EEEEEEEEEEEEEE	DDDDDDDDDDDD	TTTTTTTTTTTT
EEEEEEEEEEEEEE	DDDDDDDDDDDD	TTTTTTTTTTTT
EEE	DDD	TTT
EEEEEEEEEEEEEE	DDDDDDDDDDDD	TTT
EEEEEEEEEEEEEE	DDDDDDDDDDDD	TTT
EEEEEEEEEEEEEE	DDDDDDDDDDDD	TTT

FILEID**DEFKEY

DDDDDDDD	EEEEEEEEE	FFFFFFFFF	KK	KK	EEEEEEEEE	YY	YY
DDDDDDDD	EEEEE	FFFFFFF	KK	KK	EEEEEEEEE	YY	YY
DD	DD	EE	FF	KK	EE	YY	YY
DD	DD	EE	FF	KK	EE	YY	YY
DD	DD	EE	FF	KK	EE	YY	YY
DD	DD	EEEEE	FFFFFFF	KKKKKK	EEEEEEE	YY	YY
DD	DD	EEEEE	FFFFFFF	KKKKKK	EEEEEEE	YY	YY
DD	DD	EE	FF	KK	EE	YY	YY
DD	DD	EE	FF	KK	EE	YY	YY
DD	DD	EE	FF	KK	EE	YY	YY
DD	DD	EE	FF	KK	EE	YY	YY
DDDDDDDD	EEEEEEEEE	FF	KK	KK	EEEEEEEEE	YY	YY
DDDDDDDD	EEEEEEEEE	FF	KK	KK	EEEEEEEEE	YY	YY

.....

LL		SSSSSSS
LL		SSSSSSS
LL		SS
LL		SS
LL		SS
LL		SSSSSS
LL		SSSSSS
LL		SS
LL		SS
LL		SS
LLLLLLLL		SSSSSSS
LLLLLLLL		SSSSSSS

! Define a key
! File: DEFKEY.BLI Edit: JBS1005

```
1 0001 0 XTITLE 'EDT$DEFKEY - define a key'
2 0002 0 MODULE EDT$DEFKEY (
3 0003 0           IDENT = 'V04-000'
4 0004 0           ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 ****
8 0008 1 *
9 0009 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 ****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1   FACILITY:   EDT -- The DEC Standard Editor
33 0033 1
34 0034 1   ABSTRACT:
35 0035 1
36 0036 1     Define a key
37 0037 1
38 0038 1   ENVIRONMENT: Runs at any access mode - AST reentrant
39 0039 1
40 0040 1   AUTHOR: Bob Kushlis, CREATION DATE: 6-AUG-1979
41 0041 1
42 0042 1   MODIFIED BY:
43 0043 1
44 0044 1     1-001 - Original. DJS 18-FEB-1981. This module was created by
45 0045 1     extracting routine EDT$DEFK from module EDTCTR.
46 0046 1     1-002 - Regularize headers. JBS 04-Mar-1981
47 0047 1     1-003 - Implement virtual memory deallocation. TMV 6-Aug-81
48 0048 1     1-004 - Return an error code to distinguish the types of errors. JBS 18-May-1982
49 0049 1     1-005 - New implementation of defined keys. JBS 13-Aug-1982
50 0050 1   --
51 0051 1
```

```
53      0052 1 %SBTTL 'Declarations'  
54      0053 1 !  
55      0054 1 TABLE OF CONTENTS:  
56      0055 1 !  
57      0056 1 !  
58      0057 1 REQUIRE 'EDTSRC:TRAROUNAM';  
59      0496 1 !  
60      0497 1 FORWARD ROUTINE  
61      0498 1     EDT$$DEFK;  
62      0499 1 !  
63      0500 1 !  
64      0501 1 INCLUDE FILES:  
65      0502 1 !  
66      0503 1 !  
67      0504 1 REQUIRE 'EDTSRC:EDTREQ';  
68      0639 1 !  
69      0640 1 LIBRARY 'EDTSRC:KEYPADDEF';  
70      0641 1 !  
71      0642 1 !  
72      0643 1 MACROS:  
73      0644 1 !  
74      0645 1     NONE  
75      0646 1 !  
76      0647 1 EQUATED SYMBOLS:  
77      0648 1 !  
78      0649 1     NONE  
79      0650 1 !  
80      0651 1 OWN STORAGE:  
81      0652 1 !  
82      0653 1     NONE  
83      0654 1 !  
84      0655 1 EXTERNAL REFERENCES:  
85      0656 1 !  
86      0657 1     In the routine
```

```
88 0658 1 %SBTTL 'EDT$$DEFK - define a key'  
89 0659 1  
90 0660 1 GLOBAL ROUTINE EDT$$DEFK ( | Define a key  
91 0661 1 KEY, | Key number to define  
92 0662 1 STRING, | Address of new definition  
93 0663 1 LEN | Length of that definition  
94 0664 1 ) =  
95 0665 1  
96 0666 1 ++  
97 0667 1 | FUNCTIONAL DESCRIPTION:  
98 0668 1 | Define a key. It is entered in the table of defined keys  
99 0669 1 | so that EDT$$FIND_KEY can find it.  
100 0670 1  
101 0671 1 | FORMAL PARAMETERS:  
102 0672 1  
103 0673 1  
104 0674 1 | KEY Key number to define  
105 0675 1  
106 0676 1 | STRING Address of new definition string  
107 0677 1  
108 0678 1 | LEN Length of that definition  
109 0679 1  
110 0680 1 | IMPLICIT INPUTS:  
111 0681 1  
112 0682 1 | NONE  
113 0683 1  
114 0684 1 | IMPLICIT OUTPUTS:  
115 0685 1  
116 0686 1 | EDT$$A_TRN_TBL  
117 0687 1  
118 0688 1 | ROUTINE VALUE:  
119 0689 1  
120 0690 1 | 1 = key defined  
121 0691 1 | any even number - an error code to be printed using EDT$$OUT_MSG.  
122 0692 1  
123 0693 1 | SIDE EFFECTS:  
124 0694 1  
125 0695 1 | Allocates dynamic memory for the key definition  
126 0696 1  
127 0697 1 |--  
128 0698 1  
129 0699 2 | BEGIN  
130 0700 2  
131 0701 2 | EXTERNAL ROUTINE  
132 0702 2 | EDT$$STST_BADK, | Test for an undefinable key  
133 0703 2 | EDT$$SCAN_KDEF, | Cancel an existing key definition, if any  
134 0704 2 | EDT$$ALO_HEAP: | Allocate heap storage  
135 0705 2  
136 0706 2 | EXTERNAL  
137 0707 2 | EDT$$A_TRN_TBL : VECTOR; | The keypad translation table  
138 0708 2  
139 0709 2 | MESSAGES ((KEYNOTDEF, INSMEM));  
140 0710 2  
141 0711 2 | LOCAL  
142 0712 2 | KEY_PTR : REF BLOCK [, BYTE] FIELD (KEY_DEF_FIELD),  
143 0713 2 | STATUS;  
144 0714 2
```

EDT\$DEFKEY
V04-000 EDT\$DEFKEY - define a key EDT\$\$DEFK - define a key 16-Sep-1984 00:16:52 VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]DEFKEY.BLI;1 Page 4
145 0715 2 IF EDT\$\$TST_BADK (.KEY) THEN RETURN (EDT\$_KEYNOTDEF);
146 0716 2
147 0717 2 |+
148 0718 2 | Cancel any existing definition of the key.
149 0719 2 |-
150 0720 2 STATUS = EDT\$\$SCAN_KDEF (.KEY);
151 0721 2
152 0722 2 IF (NOT .STATUS) THEN RETURN (.STATUS);
153 0723 2
154 0724 2 |+
155 0725 2 | Allocate storage to hold the key definition.
156 0726 2 |-
157 0727 2
158 0728 2 IF (NOT EDT\$SALO_HEAP (%REF (.LEN + KEY_DEF_OVERHEAD), KEY_PTR)) THEN RETURN (EDT\$_INSMEM);
159 0729 2
160 0730 2 |+
161 0731 2 | Load up the key definition block and store in the table.
162 0732 2 |-
163 0733 2 KEY_PTR [KEY_DEF_NEXT] = .EDT\$SA_TRN_TBL [.KEY MOD K_KPAD_HASHSIZ];
164 0734 2 KEY_PTR [KEY_DEF_KEY] = .KEY;
165 0735 2 KEY_PTR [KEY_DEF_LEN] = .LEN;
166 0736 2 EDT\$SA_TRN_TBL [.KEY MOD K_KPAD_HASHSIZ] = .KEY_PTR;
167 0737 2 EDT\$\$CPY_MEM (.LEN, .STRING, CH\$PTR (KEY_PTR [KEY_DEF_TEXT]));
168 0738 2 RETURN (T);
169 0739 1 END; ! of routine EDT\$\$DEFK

```

.TITLE EDT$DEFKEY EDT$DEFKEY - define a key
.IDENT \V04-000\

.EXTRN EDT$$TST_BADK, EDT$$SCAN_KDEF
.EXTRN EDT$$ALO_HEAP, EDT$$A TRN TBL
.EXTRN EDTS_KEYNOTDEF, EDTS_INSMEM

.PSECT _EDT$CODE,NOWRT, SHR, PIC,2

.ENTRY EDT$$DEFK, Save R2,R3,R4,R5 : 0660
SUBL2 #8, SP
PUSHL KEY
CALLS #1, EDT$$TST_BADK
BLBC R0, 1$ 0715
MOVL #EDTS_KEYNOTDEF, R0
RET

PUSHL KEY : 0720
CALLS #1, EDT$$SCAN_KDEF
BLBC STATUS, 3$ 0722
PUSHAB KEY_PTR 0728
ADDL3 #7, LEN, 4(SP)
PUSHAB 4(SP)
CALLS #2, EDT$$ALO_HEAP
BLBS R0, 2$ 0733
MOVL #EDTS_INSMEM, R0
RET

MOVL KEY_PTR, R1
EMUL #1 KEY, #0, -(SP)
EDIV #199, (SP)+, R0, R0
MOVAL EDT$$A TRN TBL[R0], R0

```

EDT\$DEFKEY
V04-000

EDT\$DEFKEY - define a key
EDT\$\$DEFK - define a key

F 2
16-Sep-1984 00:16:52
14-Sep-1984 12:22:53
VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]DEFKEY.BLI;1

Page 5
(3)

	61		60	D0	00060	MOVL	(R0), (R1)		
	04	A1	04	AC	B0	00063	MOVW	KEY, 4(R1)	0734
	06	A1	0C	AC	90	00068	MOVB	LEN, 6(R1)	0735
		60	51	D0	0006D	MOVL	R1, (R0)	0736	
07	A1	08	BC	0C	AC	28 00070	MOVC3	LEN, @STRING, 7(R1)	0737
			50	01	D0	00077	MOVL	#1, R0	0738
						04 0007A 3\$:	RET	0739	

; Routine Size: 123 bytes, Routine Base: _EDT\$CODE + 0000

; 170 0740 1
; 171 0741 1 !<BLF/PAGE>

EDT\$DEFKEY
VO4-000 EDT\$DEFKEY - define a key
 EDT\$\$DEFK - define a key
.: 173 0742 1 END
.: 174 0743 1
.: 175 0744 0 ELUDOM

G 2
16-Sep-1984 00:16:52 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:22:53 DISK\$VMSMASTER:[EDT.SRC]DEFKEY.BLI;1 Page 6 (4)

: ! of module EDT\$DEFKEY

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	123	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
-\$255\$DUA28:[EDT.SRC]EDT.L32:1	377	1	0	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32:1	2	1	50	7	00:00.1
-\$255\$DUA28:[EDT.SRC]KEYPADDEF.L32:1	34	7	20	7	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LISS\$:DEFKEY/OBJ=OBJ\$:DEFKEY MSRC\$:DEFKEY.BLI/UPDATE=(ENH\$:DEFKEY)

: Size: 123 code + 0 data bytes
: Run Time: 00:11.5
: Elapsed Time: 00:14.4
: Lines/CPU Min: 3868
: Lexemes/CPU-Min: 12306
: Memory Used: 75 pages
: Compilation Complete

0133 AH-BT13A-SE
VAX/VMS V4.0

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LIS

FILEIO
LIS

FINDKEY
LIS

EDTVECTOR
LIS

FCOLINC
LIS

FINAL
LIS

FJOHNDOE
LIS

DEKEY
LIS

ERRMSG
LIS

ECHAR
LIS